

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number  
**WO 2005/071392 A1**

(51) International Patent Classification<sup>7</sup>: **G01N 23/04**,  
G01T 1/20, 1/29, A61B 6/03

[NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(21) International Application Number:  
PCT/IB2005/050017

(72) Inventor; and  
(75) Inventor/Applicant (for US only): **SCHLOMKA, Jens-Peter** [DE/DE]; c/o Philips Intellectual Property &, Standards GmbH Weisshausstr. 2, 52066 Aachen (DE).

(22) International Filing Date: 4 January 2005 (04.01.2005)

(25) Filing Language: English

(74) Agents: **MEYER, Michael** et al.; Philips Intellectual Property &, Standards GmbH Weisshausstr. 2, 52066 Aachen (DE).

(26) Publication Language: English

(30) Priority Data:  
04100135.5 16 January 2004 (16.01.2004) EP

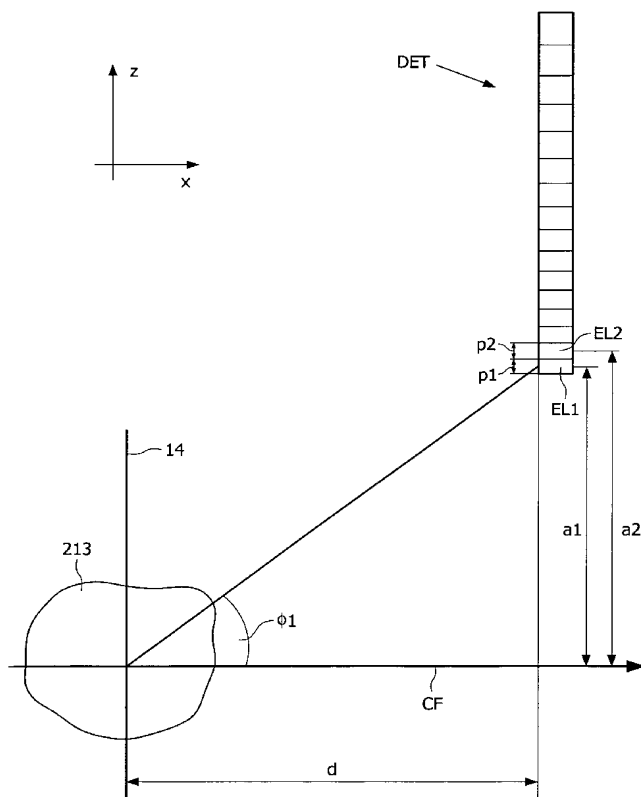
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

(71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-damm 94, 20099 Hamburg (DE).

(71) Applicant (for all designated States except DE, US):  
**KONINKLIJKE PHILIPS ELECTRONICS N. V.**

[Continued on next page]

(54) Title: COMPUTER TOMOGRAPH AND RADIATION DETECTOR FOR DETECTING RAYS THAT ARE ELASTICALLY SCATTERED IN AN OBJECT



(57) Abstract: The invention relates to a computer tomograph and to a radiation detector for detecting elastically scattered rays. The computer tomograph comprises a radiation source for radiating primary radiation through an object which is present in an examination region. The primary radiation is partly scattered in the object owing to interactions with the object. A detector comprises detector elements by which the scattered rays are detected. These detector elements lie outside the region through which the primary radiation is passed, and their effective dimensions become smaller in the direction in which the scattering angles become smaller.

WO 2005/071392 A1



TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**(84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

**Published:**

— *with international search report*

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